

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jun 2026

Comparison of different doses of remifentanyl on tracheal intubation in the absence of muscle relaxants

Protocol summary

Summary

The aim of this randomized double-blind clinical trial is to evaluate Laryngoscopy and tracheal intubating condition after co-induction with propofol plus lidocaine and different doses of remifentanyl in the absence of muscle relaxant drugs. A total of 162 patients, meeting eligibility criteria, were randomly allocated into two equal groups. After establishing routine monitors, blood pressure and heart rate are measured and serve as baseline values. All patients after hydration and premedication with 0.02 mg/kg midazolam will receive 1.5 mg/kg lidocaine, 2 mg/kg propofol and according to the group 2 or 3 µg/kg remifentanyl. 90 seconds after induction of anesthesia, laryngoscopy and intubation was performed. Laryngoscopy and intubation conditions on the movement and position of vocal cord, airway reaction and limb movement as excellent, good and poor will be assessed. Immediately and 5 min after laryngoscopy and tracheal intubation, blood pressure and heart rate will be measured. Finally Laryngoscopy and intubation conditions and blood pressure and heart rate are compared between the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201110216803N2**
Registration date: **2011-10-27, 1390/08/05**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-10-27, 1390/08/05

Registrant information

Name

Abolfazl Firouzian

Name of organization / entity

Mazandaran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 15 1222 6655

Email address

a.firouzian@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2006-09-23, 1385/07/01

Expected recruitment end date

2007-02-20, 1385/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of different doses of remifentanyl on tracheal intubation in the absence of muscle relaxants

Public title

The effect of remifentanyl on endotracheal intubation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Informed written consent; ASA class I-II; Age between 18 and 50 years; Elective surgery; Mallampati class I-II. Exclusion criteria: History of difficult intubation; Pulmonary diseases; Recent respiratory tract infection; History of previous surgery on the larynx; Smoking; Gastroesophageal reflux; Hiatal hernia; Substance abuse; Pregnancy; Obesity; Renal diseases

(baseline serum creatinine > 2mg/dl); Hepatic diseases (liver function tests > 1.5 times of the normal upper limit).

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **162**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Mazandaran University of Medical Sciences

Street address

Mazandaran University of Medical Sciences, Moallem Square

City

Sari

Postal code

46175866

Approval date

2006-09-13, 1385/06/22

Ethics committee reference number

63-85

Health conditions studied

1

Description of health condition studied

In the absence of muscle relaxants to facilitate intubation

ICD-10 code

T88.4

ICD-10 code description

Failed or difficult intubation

Primary outcomes

1

Description

tracheal intubation

Timepoint

90 seconds after induction of anesthesia

Method of measurement

on the movement and position of vocal cord, airway reaction and limb movement as excellent, good and poor will be assessed.

Secondary outcomes

1

Description

systolic pressure

Timepoint

Immediately and 5 min after laryngoscopy and tracheal intubation

Method of measurement

manometer

2

Description

diastolic pressure

Timepoint

Immediately and 5 min after laryngoscopy and tracheal intubation

Method of measurement

manometer

3

Description

heart rate

Timepoint

Immediately and 5 min after laryngoscopy and tracheal intubation

Method of measurement

manitoring

Intervention groups

1

Description

intervention 1: Remifentanil 2 µg/kg

Category

Treatment - Drugs

2

Description

intervention 2 : Remifentanil 3 µg/kg

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam khomeini hospital

Full name of responsible person

Alieh Zamani Kiasary MD,Assistant Professor

Street address

Emam khomeini hospital, Amirmazandarani Ave.

City

Sari

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Ahmad Ali Enayati MD

Street address

Mazandaran University of Medical Sciences, Moallem Square

City

Sari

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Mazandaran University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

empty

Person responsible for general inquiries

Contact

Person responsible for scientific inquiries

Contact

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Alieh Zamani Kiasary MD

Position

Anesthesiologist,Assistant Professor

Other areas of specialty/work**Street address**

Amirmazandarani Ave- Emam khomeini hospital

City

Sari

Postal code

4814839953

Phone

+98 15 1222 4488

Fax

+98 15 1227 5038

Email

aliehzamani@yahoo.com

Web page address

www.mazums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Mazandaran University of Medical Sciences

Full name of responsible person

Abolfazl Firouzian

Position

Anesthesiologist

Other areas of specialty/work**Street address**

Amirmazandarani Ave- Emam khomeini hospital

City

Sari

Postal code

4814839953

Phone

+98 15 1222 6655

Fax

+98 15 1227 5038

Email

a.firouzian@mazums.ac.ir

Web page address

www.mazums.ac.ir

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty